

SAMSUNG



Megapixel Network Camera SNC-1300 User Guide

Before installing and operating this product,
please read this manual thoroughly.

English

iPOLiS

iPOLiS a brand integrated into Samsung's network products, stands for a convenient world (Polis) made safe (Police) through Samsung's superior network performance (Internet Protocol). iPOLiS network cameras and servers are our advanced security systems providing versatile network options by default, including an Ethernet interface for easy internet connection, high-quality image transfer options using MPEG-4, M-JPEG a Web Viewer, two-way audio, and remote control capacity.

FCC Compliance Statement

NOTE : This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which cause the user will be required to correct the interference at his own expense.

Correct Disposal of This Product (Waste Electrical & Electronic Equipment)



(Applicable in the European Union and other European countries with separate collection systems.) This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

Correct Disposal of Batteries in this Product

(Applicable in the European Union and other European countries with separate battery return systems.)



This marking on the battery, manual or packaging indicates that the batteries in this product should not be disposed of with other household waste at the end of their working life. Where marked, the chemical symbols Hg, Cd or Pb indicate that the battery contains mercury, cadmium or lead above the reference levels in EC Directive 2006/66. If batteries are not properly disposed of, these substances can cause harm to human health or the environment. To protect natural resources and to promote material reuse, please separate batteries from other types of waste and recycle them through your local, free battery return system.

The rechargeable battery incorporated in this product is not user replaceable.
For information on its replacement, please contact your service provider.



Samsung Techwin cares for the environment at all product manufacturing stages, and is taking measures to provide customers with more environmentally friendly products.

The Eco mark represents Samsung Techwin's devotion to creating environmentally friendly products, and indicates that the product satisfies the EU RoHS Directive.

■ Preface

Thank you for purchasing this SNC-1300 camera.

This user's manual describes how to use the high-resolution network camera. Also 'product' in this document indicates high-resolution network camera. The user who installs and operates the product shall be aware of this manual and other manuals referenced by this manual before the installation and operation and use it properly. This manual and the software and hardware explained here are protected by copyright law. All copying, reprinting and translating to other languages of part or all of its contents without permission of Samsung Techwin Co., Ltd. are not allowed, except for fair use within the scope of copyright law.

■ Product Warranty and Limited Liability

The manufacturer of this product is not responsible for the sale of the product, nor does the manufacturer delegate such responsibility to a third party.

The product warranty does not cover accidents, negligence, abuse, or improper use for the item in whole or in any part. Additionally, the manufacturer does not provide warranty for any additional part or piece that was not supplied by the manufacturer.

The product warranty period is for two years from the purchase date. However, the warranty does not cover any of the following problems, and a nominal service fee will be charged if:

- Product has been improperly used or handled by user.
- Product has been disassembled and/or altered by user.
- Product has been damaged by connecting a power supply with improper specifications.
- Product has been damaged due to an "Act of God" (fire, flood, tsunami, natural disaster, etc.).
- To replace expendable components.
- Product is malfunctioning due to an unstable network connection.

■ This instruction manual is based on the product installed with the firmware version at 1.0.0.

Warning Symbols

The following section contains vital information that helps protect the safety of the user and prevent property damage/loss. Please read it carefully for safe and proper use of your product.

Legend: Warning and Caution Symbols



This warning symbol indicates death, grave personal injury, and/or damage to property as consequences for failure to comply.



This caution symbol indicates damage to the equipment, installed programs, and/or contained data as consequences for failure to comply.



This symbol indicates an informative appendix to a certain section of this user's manual.

Warning

Installing the Product

- Please check the power outlet voltage before you connect the power to the outlet.
- Make sure that the product is switched off before you install it.
- There is a risk of shock or fire; be sure to avoid setting up in places with high humidity.
- The product must be grounded to reduce the risk of electric shock.
- Self-installation of this product is prohibited.

Installing this product requires experience and specialized skills; attempting to install the product by yourself exposes you to the risk of fire and/or electrical shock. Please contact your vendor for installation.

- Do not install the product on a structurally unsound surface.
The product may detach from the surface and fall down.

Using the Product

- Opening or removing the product case will expose you to the risk of electric shock; do not open or remove the case unless you are a qualified technician.
- Please keep the product within the recommended temperature and humidity range.
- To prevent electrical fire, do not connect multiple power cords to a single outlet.
- Do not place heavy objects or vessels containing water on the unit since it can cause serious malfunctions.

Warning Symbols

- Do not use this item in a location containing propane gas, gasoline, or other flammable substances to avoid risk of explosion or fire.
- To avoid the risk of electric shock, do not touch the power plug with moisture on your hands.
- Do not pull on the power plug with any force; a damaged plug may cause electric shock or fire.
- Do not force an RJ-45 cable into the product connection port when connecting to a network.
- Stop using the product immediately if smoke or an unusual amount of heat is emanating from your camera. Failure to do so may result in fire.
- To avoid the risk of an explosion, the internal Lithium battery must be replaced only with an identical, or a fully compatible, product. The internal lithium battery requires specialized skills for replacement; it must be replaced by a technician, not by the user. For assistance, please contact our service center. Obsolete batteries must be properly retired or recycled to protect the environment.
- Do not expose the battery to heat or place it in fire; short-circuiting or disassembling the battery is also hazardous.
- Do not recharge the battery.

Disassembly and Cleaning

- There is a risk of malfunction, shock, and other dangers. Do not disassemble or attempt to fix or alter the product yourself.
- Do not clean the product with water, paint thinner, or other organic solvent as doing so may cause product malfunctions and/or electric shock. When cleaning the product, use a dry cloth to wipe the exterior of the device.

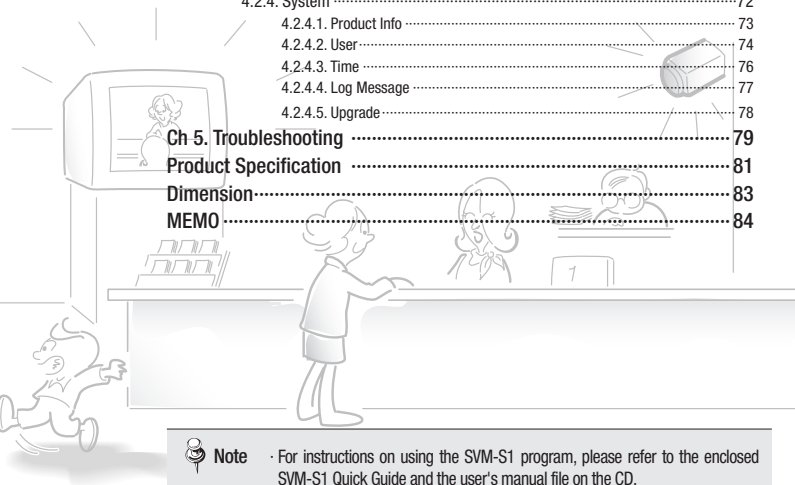
Caution

- Do not install the product in a location where it may be exposed to extreme heat or cold.
- Using the product in extremely hot (over 50°C) or extremely cold (under -10°C) environments may degrade picture quality and/or cause product malfunctions.
- Do not install the product in areas with flickering illumination. Severe fluctuations in ambient luminance, such as flickering of old fluorescent lights, may cause the product to malfunction.
- Do not drop the camera or subject it to physical shock. It may damage the product.
- Do not drop the camera or subject it to physical shock. It may damage the product.
- Avoid touching the camera lens. It is the most important component of your product. Be careful not to smear it with fingerprints.
- Do not install the camera where it may be exposed to rain, water, and/or radioactivity. Water may enter the product and cause malfunctions.
- Do not open or disassemble the product. Opened or disassembled products are not covered by the warranty.
- Inspect your network environment before connecting the camera to the network.
- Do not use power adapters other than the one that is provided with the camera.
- Please review local, state, and federal information security laws before using this product as part of your security system.

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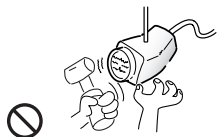
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Note · For instructions on using the SVM-S1 program, please refer to the enclosed SVM-S1 Quick Guide and the user's manual file on the CD.

Warning ⚡

Self-installation of this product is prohibited.



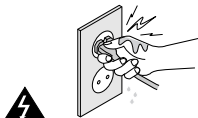
Installing this product requires experience and specialized skills; attempting to install the product by yourself exposes you to the risk of fire and/or electrical shock. Please contact your vendor for installation.

Do not install the product in a damp area, or where it may be exposed to flammable liquids and/or gas.



Product malfunctions, electric shock, and/or fire may occur.

Do not handle the power plug with wet hands.



It may cause electric shock.

Stop using the product immediately if smoke or an unusual amount of heat is emanating from your camera.



Failure to do so may result in fire.

Do not install the product on a structurally unsound surface.



The product may detach from the surface and fall down.

Do not disassemble the product or place foreign objects into the product.



Product damage and/or fire may occur.

⚠ Caution

Do not install the product in a location where it may be exposed to extreme heat or cold.



Using the product in extremely hot (over 50°C) or extremely cold (under -10°C) environments may degrade picture quality and/or cause product malfunctions. When using the product in hot areas, be sure to provide adequate ventilation for the product.

Do not drop the product, or subject it to strong shocks or vibration.



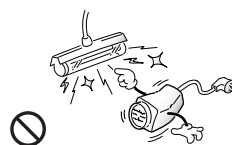
It may damage the product.

Do not touch the camera lens.



It is the most important component of your product. Avoid contaminating the lens with fingerprints or other pollutants.

Do not install the product in areas with flickering illumination.



Severe fluctuations in ambient luminance, such as flickering of old fluorescent lights, may cause the product to malfunction.

Never point the camera directly at the sun, or other powerful sources of light.



You may severely damage the charge-coupled device (CCD).

Do not install the product where it may be exposed to radioactivity.



Exposure to radioactivity will degrade the CCD and cause malfunctions.

Factory Default Settings

The following are the factory default settings for the product.

Monitoring

Main Menu	Sub Menu	Default setting
1 Ch Display		On
Flip Image		Off
Stretch Image		Off
Information		On
Save Image		Off
Basic Mode	Resolution	Main
	Compression	MPEG - 4
PTZ Mode	PTZ Speed	3
Relay		Off

Video Setup

Main Menu	Sub Menu			Default setting
Video/Audio	Video	Mode		960P
		Default Display Stream		Main Stream
	Stream	Main Stream	Resolution	MEGA
			Frame rate(MPEG-4)	10
			Frame rate(M-JPEG)	5
			Quality	High
		Sub Stream	Resolution	CIF(Fixed)
			Frame rate(MPEG-4)	20
			Frame rate(M-JPEG)	5
			Quality	High
	Audio-In			Use
	Audio-Out			Use
	Max User Connection			5
Mic. Sensitivity			Low	
Streaming	Continuous Jpeg Image Transmission to FTP Server (Jpeg CIFS.)	Use		No Use
		Frame Rate		1fps
		Server Name		server_name
		Server Port		21
		Home Directory		/
		User ID		user_id
		User Password		

Streaming	Streaming Engine	Service	RTSP/TCP	No Use
			RTP/UDP	No Use
		RTP/Multicast		No Use
		RTP/Multicast IP		224.0.1.1
		RTP/Multicast Port		9000
Motion Detection		Unicast Image Resolution		Main
		RTSP Standard Port(554)		Use
Privacy		Enable		No use
		Sensitivity		3
		Enable		No Use
		Blending Level		5
Camera	1. LENS	LENS SETUP		DC/VIDEO
			Brightness Level	30
			Focus ADJ	No Use
	2. EXPOSURE		Shutter Level	1/60
			SHUTTER SETUP	A.FLK.60Hz
			GAIN SETUP	Low
	3. WHITE BALANCE		SENSUP SETUP	Use
			Enable	Use
			Sens-Up Level	X2
	4. DAYNIGHT		WHITE BALANCE SETUP	ATW
			RED Level	200
			BLUE Level	35
	5. IMAGE ADJ		DAY & NIGHT SETUP	AUTO
			FLIP SETUP	On
			MIRROR SETUP	On
Record	Recording Setup		SHARPNESS SETUP	3
			6. BLC	BLC SETUP
			OFF	OFF
			7. RESET	OFF
			Target Stream	Main Stream (MPEG-4)
			Pre Alarm	1 sec
			Post Alarm	5 sec
Replay / Backup	Replay / Backup		M-JPEG Recording Frame Rate	N/A
			MPEG-4 Recording Option	1 fps
			Overwrite	No Use
			Warning Message	No Use
			Event Type	ALL

Factory Default Settings

PTZ

Main Menu	Sub Menu		Default setting
Pan / Tilt / Zoom	Device Setup	Device ID	1
		Mode	SRX-100B

Config

Main Menu	Sub Menu		Default setting
Network	Interface	LAN	LAN
			IP Address 192.168.1.100
			Net Mask 255.255.255.0
			GateWay 192.168.1.1
			DNS1 168.126.63.1
			DNS2 168.126.63.2
	Port	Service Port	80
	DDNS	Use	No Use
		Server	www.samsungipolis.com
		ID	
		Password	
IP Filtering	IP Filtering	Use	No Use
	Default Policy		Deny
Alarm Sensor	Digital In(Sensor) Setup	Use	S1 Use
		Type	Normal Open
	Digital Out(Relay/Alarm) Setup	Relay(R1)	S1 No Use
		Relay(Duration)	3sec 3sec
		FTP	S1 No Use
			MD No Use
		Mail	S1 No Use
			MD No Use
		Recording	S1 No Use
			MD No Use

E-mail / FTP (Alarm)	FTP Setup	Server Name		server_name
		Server Port		21
		Home Directory		/
		User ID		user_id
		User Password		
	Email - Setup	Recipient E-mail Address 1		mail_address1
		Recipient E-mail Address 2		mail_address2
		SMTP Server Name		external_smtp_server_name
		Authentication		Use
			ID	external_smtp_id
			PW	
		Mail Subject		mail_subject
		Mail Body		mail_body

Factory Default Settings

System

Main Menu	Sub Menu			Default setting
Product Info	Model			SNC-1300
	Mac Address			
	Device Name			SNC-1300
	Channel Name			ch01cam
	Location			location
	Description			description
	Memo			memo
User	Administrator Password Change	Type		
		Re-Type		
	Guest Setup	Guest Access		No Use
	Current Users	User Name		user1
		Password		user1
		Control Level	Video	Use
			Control	Use
			Audio - In	Use
		Use		No Use
		User Name		user2
		Password		user2
		Control Level	Video	Use
			Control	Use
			Audio - In	Use
		Use		No Use
		User Name		user3
		Password		user3
		Control Level	Video	Use
			Control	Use
			Audio - In	Use
		Use		No Use
		User Name		user4

User	Current Users	Password		user4
		Control Level	Video	Use
			Control	Use
			Audio - In	Use
		Use		No Use
		User Name		user5
		Password		user5
		Control Level	Video	Use
			Control	Use
			Audio - In	Use
		Use		No Use
Time	Current Time			2009-01-01 00:00:00 (+00:00)
	Time Zone			(GMT) Greenwich Mean Time
	Device Name		Use Daylight Saving Time	Use
	Time Setup	Set Manually	Date	
			Time	
		Time Server	Server1	pool.ntp.org
		Time Server	Server2	asia.pool.ntp.org
		Time Server	Server3	europa.pool.ntp.org
		Time Server	Server4	north-america.pool.ntp.org
		Time Server	Server5	time.nist.gov
Log message	Syslog	All		
	SNC-1300 Firmware			1.0.0
Upgrade/Reboot	Current version			
	Module Version			
	Last Updated			
	Default Setting			
	Reboot			

Chapter 1. SNC-1300 Network Camera Summary

1.1. SNC-1300 Network Camera Introduction

The SNC-1300 is based on the MPEG-4 codec technology which achieves both a high data compression rate and high image quality. This advanced network camera is capable of transferring high quality image data at a high frame rate and in real time over the network. It is easy to install and use; you only need a network cable to install and connect it to your network, and you can remote-control, monitor, command it online from anywhere, anytime. The SNC-1300 network camera is provided with our proprietary embedded software solutions (Embedded Web Server, Embedded Streaming Server, and Network Protocol) to guarantee optimal performance and stability through various internet-integrated services.

1.2. Features

High Resolution

The Progressive Sony CCD with 1320k pixels achieves HD-grade high resolution images.

Real-Time Multi-Channel Multi-Encoding

This camera can encode images simultaneously at different resolutions (960P/720P/4CIF/CIF) with two different codecs (MPEG-4 and JPEG) and transfer them in real time.

Excellent Low-Light Functionality

Diagonal 6mm (1/3") super-sensitive CCD and digital signal processing technology make it possible to discern subject shapes and colors clearly even in extreme low-light (starlight level illumination) environments. The product's low-light functionality makes it ideal for 24-hour video security outdoors and in perimeter areas.

Day & Night Capacity

With the Day & Night switch and Sens-Up functions based on the ICR (Infrared Cut filter Removal) method, the camera provides high-quality pictures regardless of whether it is day or night.

- ※ Day & Night enables you to select between color and B/W modes depending on the lighting conditions.
- ※ Sens-Up increases the CCD sensitivity by electrically extending the camera's exposure time.

Supports PoE (Power over Ethernet)

PoE uses a single LAN cable to transfer both electrical power and data; embedded with PoE technology, this camera is easy to install and use.

SD Memory Card Slot for Local Storage

SD memory card can be used to store event data when the pertinent option is activated.

Privacy Protection

You can mask desired areas on the screen for privacy protection.

Supports RTSP, RTP/UDP, RTP/Multicast

Electronic Iris

With the electronic iris function, this camera can auto-control its shutter.

Supports Video/DC Lens Drives

An easy-to-use menu lets you choose between a video lens drive and a DC lens drive.

Alert Options

The camera's motion detection is integrated with various alert options; you can set it up to transfer a still image via FTP or email, or store the image to an SD memory card upon detecting movement.

High Data Compression Rate

Based on the MPEG-4 high data compression rate, this camera has a comparatively high data transfer rate; images are transferred at a high frame rate over a network.

Two-Way Audio

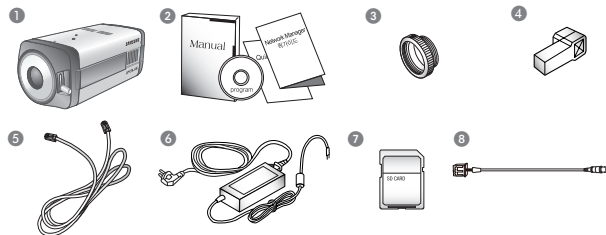
Transfers real-time audio data both ways.

Additional Features

Right/Left Image Inversion, Sharpness.

Chapter 2. Product Information

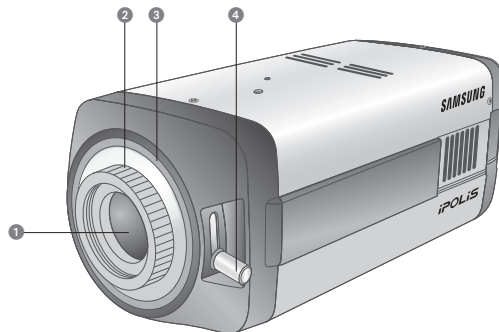
2.1. Package Contents



- | | | |
|---------------------------------|--------------------------------|-----------------------------|
| 1 Camera Chassis | 2 User's Manual/CD/Quick Guide | 3 C-Mount Adapter |
| 4 Auto Iris Lens Connector Plug | 5 Cross Cable | 6 DC 12V Adapter/Power Cord |
| 7 SD Card (2GB) | 8 Included Video Cable | |

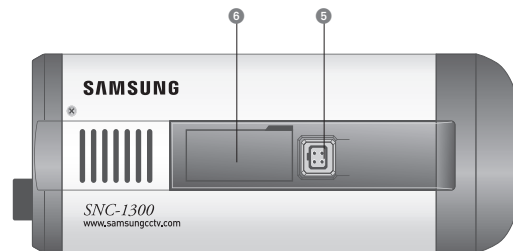
2.2. Part Names and Functions

2.2.1. Front



- 1 Protective Cover : Keep the cover on if the camera is not attached with a lens.
- 2 C-Mount Lens Adapter : Attach a C-Mount lens here.
- 3 CS-Mount Lens Adapter : Remove C-Mount lens adapter to attach a CS-Mount lens directly to the camera.
- 4 Back Focus Adjustment Lever : Use this lever to adjust the back focus.

2.2.2. Side



- 5 Auto Iris Lens Connector : Connect an auto iris lens here.
- 6 SD Memory Card Slot : Insert the SD memory card here.

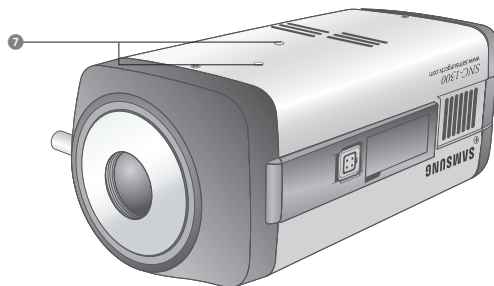


Caution

- The SNC-1300 is compatible only with SD card; MMC cannot be used. Do not insert the SD card backward; it may damage the slot.
- Only 1 to 2GB SD and 4GB SDHC cards are supported.
- We recommend the FAT32 format.
- Please turn off the camera before removing the SD card; the data may be damaged otherwise.

Chapter 2. Product Information

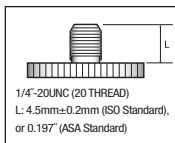
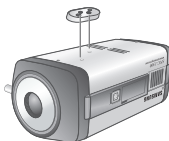
2.2.3. Bottom



7 Stand Fixture Groove : Use this groove to attach a stand.

Make sure to use the correct-size screws as shown in the figure on the right.

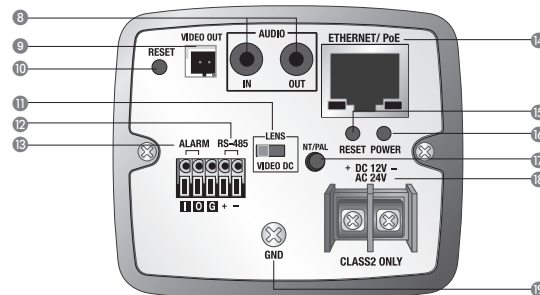
※ The stand fixture can be detached and attached on the top. When attaching on the top, use screws less than 5mm in size. Longer screws may cause critical errors inside the camera.



Caution

- A stand is not provided with the camera. When using a stand, please refer to the stand user's manual as well.

2.2.4. Back



8 Audio Input/Output :

IN : The audio input terminal; connect a sound source such as a mic.

OUT : The audio output terminal; connect a sound receiver such as a speaker.

9 Video Output : Video output terminal is used to set the focus and other functions when the camera is installed. (You can optimize your monitor's screen between NTSC and PAL mode using the NT/PAL switch.)

Caution

- The camera is compatible only with the included video cable.

10 RESET Switch : Use this switch to reset the camera to its factory defaults. When pressing the reset switch for longer than 5 seconds, the RESET LED starts blinking as the camera resets to the factory defaults. To reset the camera, please wait at least 1 minute after the camera is turned on.

11 Auto Iris Lens Switch : Select DC or Video depending on your current auto iris lens type.

12 RS-485 : Connect the RS-485 to SRX-100B or SUNGJIN with the plus (+) signal to plus and minus (-) signal to minus.

Caution

- A 30m or shorter length is recommended for the connection.

Chapter 2. Product Information

13 ALARM :

Alarm Input (I) : Used to connect an alarm input signal such as infrared or thermal sensors.

Alarm Output (O) : Used to connect an alarm output signal such as a flash light or siren.

Caution

- Connected length is 30m or less.

14 **ETHERNET** : Connect to a 10/100 Mbps Ethernet network by using a standard RJ-45 connector. You can also use this terminal for PoE (IEEE 802.3af) to supply power to the camera. The orange LED starts blinking when the camera is successfully connected to a network and starts transferring data.

15 RESET LED :

When pressing the reset switch for longer than 5 seconds, this green LED starts blinking as the camera resets to its factory defaults.

16 **POWER LED** : This LED turns on when the camera is turned on.

17 **NT/PAL** : Use this switch to optimize your monitor's screen between NTSC and PAL mode.

18 **Power** : Connect the camera's default power adapter here.

19 **GROUND** : Use this terminal to ground the camera to external devices.

Caution

- Connecting the SNC-1300 network camera to a PoE device may transfer a higher voltage to the camera; please contact your vendor for assistance when installing and uninstalling the camera.

2.3. PC Requirements

Category	Minimum Requirements	Recommended Requirements
CPU	Intel Core 2 Duo E4300 or better	Intel Core 2 Duo E7400 or better
Main Memory	1GB or more	2GB or more
Video Memory	256M or more	512MB or more
Display	1600 X 1200 (w/ 32-bit color) or higher / OpenGL compatible	
Hard Disk	80GB or more	
Operating System	Windows 2000 SP4 / Windows XP Professional / Window Vista	
Network	10/100 Base-T Ethernet	
DirectX	9.0 or higher	

Chapter 3. Installing Camera & Network Setup

3.1. Installing Lens

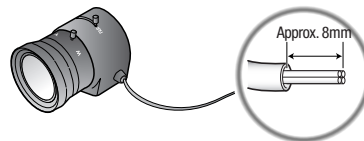
Lenses are sold separately; an auto iris lens, CS-mount lens, or C-mount lens can be used with this product.

Caution

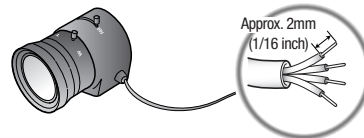
- To take full advantage of this product, it is recommended that you use an auto iris lens with DC drive.
- Keep the lens surface free of pollutants such as dirt or fingerprints, since lens contamination causes degradation in picture quality.
- Lenses other than dedicated megapixel lenses may cause degradation in picture quality.

■ When Using an Auto Iris Lens

1. Strip the coating from the end of the auto iris lens cable for approximately 8 mm.



2. Strip the coating from the insulated conductor of lens cable for approximately 2mm.

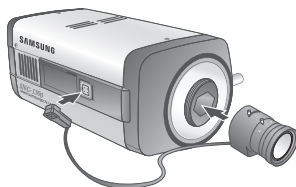


3. Remove the cover from the Auto Iris Lens Connector Plug, and solder the lens cable to the connector plate of the connector plug.

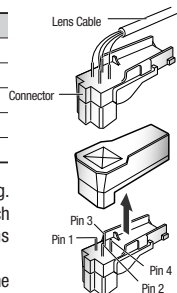
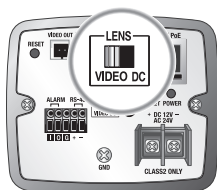
Chapter 3. Installing Camera & Network Setup

Lens		
Type	DC	VIDEO
Pin 1	Damping -	Red (Power)
Pin 2	Damping +	NC
Pin 3	Drive +	White (Video Signal)
Pin 4	Drive -	Black (Ground)

4. Close the cover of the Auto Iris Lens Connector Plug. Remove the camera's Front Protective Cover, and attach the auto iris lens to the camera by turning the lens clockwise.
5. Insert the connector plug of the auto iris lens cable into the Auto Iris Lens Connector on the side of the camera. (This product is compatible with the SLA-2882.)

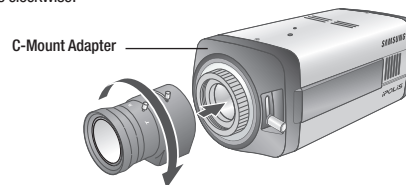


6. Use the Auto Iris Lens Switch on the back of the camera to select DC or VIDEO depending on the type of your auto iris lens.



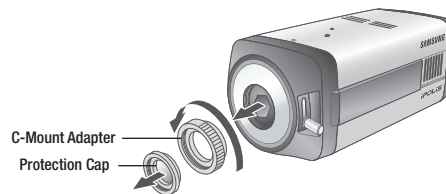
■ When Using a C-Mount Lens

Remove the camera's Front Protective Cover, and attach the C-Mount lens to the camera by turning the lens clockwise.

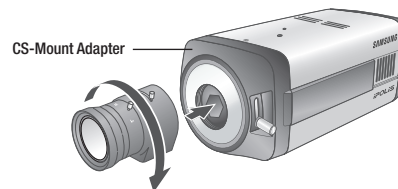


■ When Using a CS-Mount Lens

1. Remove the camera's Front Protective Cover and C-Mount Adapter.



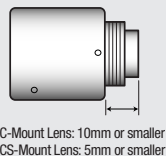
2. Attach the CS-Mount lens by turning the lens clockwise.



Chapter 3. Installing Camera & Network Setup

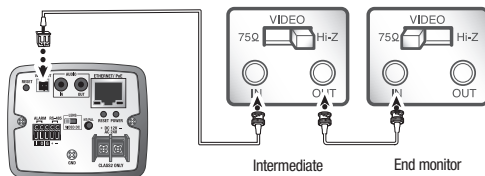
Caution

- Please make sure that your lens connector has the dimensions illustrated below. If you use a lens whose connector does not fit the camera, you may damage the camera or fail to attach the lens securely.
- If your lens is too heavy, your camera will be out of balance and may be damaged. Please use a lens that does not weigh more than 450g (15.87 oz.).
- The recommended mode for the Automatic Light Control (ALC) for an auto iris lens is Av Mode. Using Pk mode may cause image brightness to constantly change.



3.2. Connecting Monitor

Connect a cable to the camera's rear video output terminal and a monitor's video input terminal.



SNC-1300 Network Camera

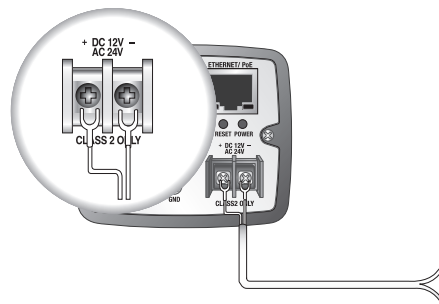
- The wiring varies depending on your monitor type and peripheral devices; please refer to the user manual of each device.
- Please keep the monitor and camera turned off while connecting them.
- As shown in the picture above, set the 75Ω/ Hi-Z switch of each device to Hi-Z for the middle video receiver and to 75Ω for the end device.

Caution

- This product is a network camera that transfers video over a network; the video output terminal is used to set the imaging range of the camera upon the installation.
- Please make sure that the video output terminal of this product is not connected to any recording equipment as this can cause problems.

3.3. Power Input

■ AC/DC Compatible



The SNC-1300 requires an adapter with a voltage of at least AC 24V/1A or DC12V/2A. Make sure to use an appropriate adapter for the camera.

Chapter 3. Installing Camera & Network Setup

Chart 3-1. Copper Wire's Electric Resistance at [20°C (68°F)]

Copper Wire Gauge(AWG)	#24(0.22m ²)	#22(0.33m ²)	#20(0.52m ²)	#18(0.83m ²)
Resistance (Ω/m)	0.078	0.050	0.030	0.018
Drop Voltage (V/m)	0.028	0.018	0.011	0.006

· As shown in the Chart 3-1, voltage drop may occur depending on the length of a copper wire: excessively lengthening the adapter cable may decrease the performance of the camera.

※ Recommended Camera Operation Voltage: DC 12V±10% or AC 24V±10%

※ Voltage drop measurements on the chart above may vary depending on the type of copper wires and their manufacturers.



Caution

- When the camera is connected to both PoE and the power adapter, it uses power from the first connected power supply.

■ PoE (Power over Ethernet)

PoE (Power over Ethernet) is a network technology that uses a LAN cable to transfer electric power along with data. It eliminates the necessity for an extra power cable for network products.

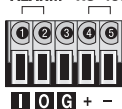
When using PoE, please make sure to connect the camera to a device that complies with the PoE standard: IEEE802.3af. Failure to follow this recommendation may result in low performance or damage to the camera.

3.4. Connecting External Control Terminals

Available terminals for external control devices are from left to right: Alarm Input, Alarm Output, Ground, RS-485 '+' and RS-485 '-'.

To connect a cable, insert the stripped end to a terminal while holding down the square button. Releasing the button fastens the cable.

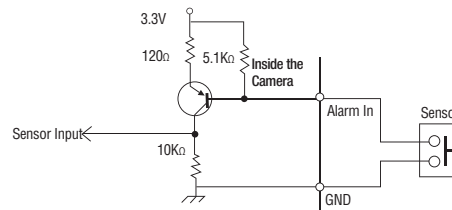
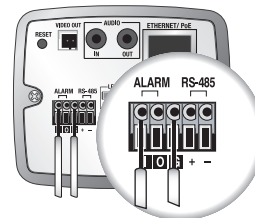
ALARM RS-485



- ① Alarm Input
- ② Alarm Output
- ③ Ground
- ④ RS-485 '+'
- ⑤ RS-485 '-'

■ Connecting Alarm Input

Please refer to the wiring diagram below to connect an alarm input device.

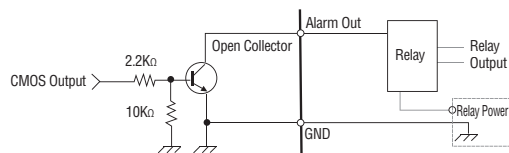
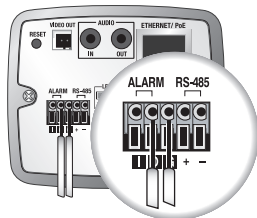


- When selecting Normal Open at the setup menu :
Activates the sensor input depending on the connection type: short circuit for the contact type and the "Low" level for dynamic.
- When selecting Normal Close at the setup menu :
Activates the sensor input depending on the connection type: Open for the contact type and the "High Impedance (Open Collector)" for dynamic.

Chapter 3. Installing Camera & Network Setup

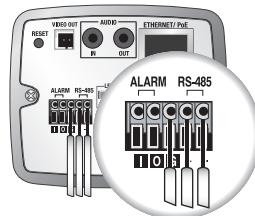
■ Connecting Alarm Output

Please refer to the wiring diagram below to connect an alarm output device.



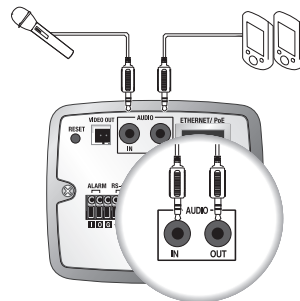
The Alarm Output terminal has an Open Collector structure, allowing the addition of an external relay device. The maximum load current is DC +24V and 100 mA.

■ Connecting RS-485



- ※ Connect the RS-485 to the SFX-100B or SUNGIN(ex)SJ3000RX) with the plus (+) signal to plus and minus (-) signal to minus.
- ※ You do not need to connect the RS-485's GND pin.
(It may be effective when communication is not working properly.)

■ Connecting Audio



- ※ Connect the Phone Jack Audio Input terminal (Mic, Mono) to the AUDIO IN terminal.
- ※ Connect the Phone Jack Audio Output terminal (speaker) to the AUDIO OUT terminal.

Chapter 3. Installing Camera & Network Setup

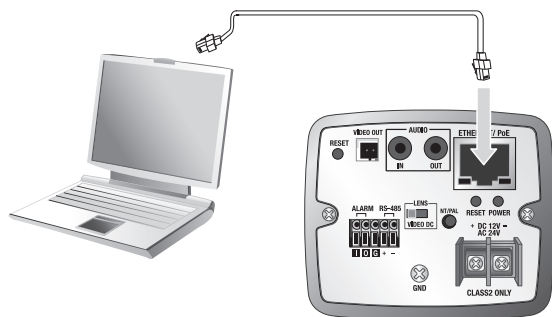
Caution

- A condenser mic is recommended for the AUDIO IN terminal.
- A speaker with a self-contained amp is recommended for the AUDIO OUT terminal.

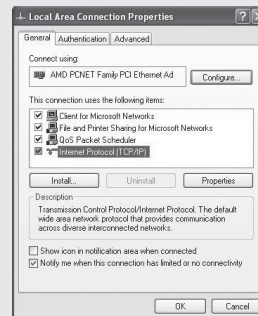
3.5. Network Configuration & Connection via Website

Use this method if you are installing only one SNC-1300 network camera.

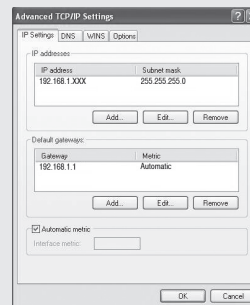
1. Connect the SNC-1300 network camera and your computer using a cross cable.



Note For the network settings, you must register an internal IP of your computer. In your computer, click Start → Control Panel → Network Connections → Local Area Connection → Properties.



- Next select the Internet Protocol (TCP/IP) and click the "Properties" button below, then press the "Advanced..." to set advanced options for your product.



- Add · 192.168.1.XXX as the internal IP of your computer. (XXX: 0 ~ 255)

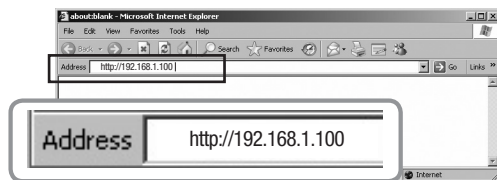
Chapter 3. Installing Camera & Network Setup



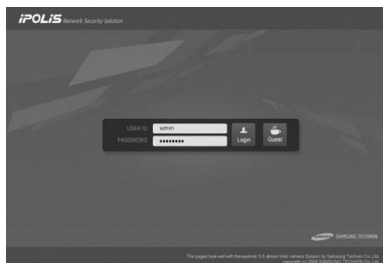
Caution

- 192.168.1.100 is the IP address for the camera and will be unavailable as an internal IP address for your computer.

2. Open an internet browser on your computer, enter [http://192.168.1.100] in the address bar, and then press Enter. You will be connected to the login screen of Web Viewer of the SNC-1300 network camera.

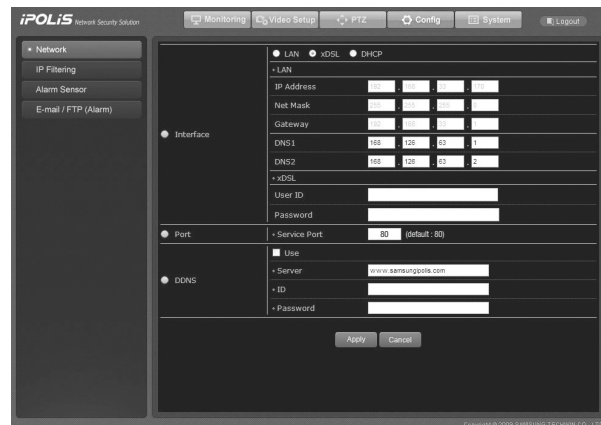


3. Log in with the administrator account, and then move to the "Network" page. (The default administrator login information is ID: admin, and PW: 11111111.)



Note The default administrator login information is ID: admin, and PW: 11111111.

4. Move to Config → Network page to enter optimal network settings for install base. Click Apply button when done to save the settings.



① LAN / xDSL / DHCP Setup

Category	Description
LAN	Enter the network information of the camera to connect it to a local network or assign it to a static IP.
xDSL	When using xDSL, enter the xDSL ID and password.
DHCP	Activate the DHCP option if the camera receives an IP from the DHCP server automatically. This option is available for LAN and DHCP server environments. Generally, medium to large networks run a DHCP server on a LAN while small networks use the DHCP function of IP routers.

Chapter 3. Installing Camera & Network Setup

② Port Setup

Port	Service Port	80
------	--------------	----

Category	Description
Port Setup	Enter a service port number; the default is 80.



Note

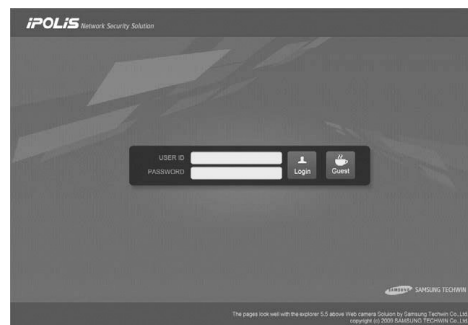
· When a device is connected to a cable or xDSL modem, its IP address keeps changing each time it attempts to connect to the ISP (internet service provider) so you cannot check the new IP address of the device. DDNS is useful for situations like this such as products with dynamic IPs. You can easily check the new IP address of your products by registering them to our DDNS server at www.samsungipolis.com. To use the DDNS service, first register the product to the DDNS server. Come back to this page, select Enable under the use DDNS option, and then enter the ID and password that was submitted to the DDNS server. For more information, please refer to Page 50: "Using DDNS."

Chapter 4. Using Web Viewer

4.1. Using Web Viewer

4.1.1. Login

Enter the IP address of your camera in an internet browser, and then press Enter to connect to the Web Viewer login page.



Enter your user ID and password, and then click Login to move to the next page.



Note · The default administrator login information is ID: admin, and PW: 11111111.

The "Guest" button can be used to access only if the Guest Access option is checked on at System → User → Guest Setup.



Note · Please change the password of your administrator account upon the first login. It helps you prevent unauthorized users from connecting to the administrator page.

Chapter 4. Using Web Viewer

4.1.2. Monitor Screen

The monitoring screen consists of a menu area for the camera and video settings and a display area for the video feed from the camera.



1

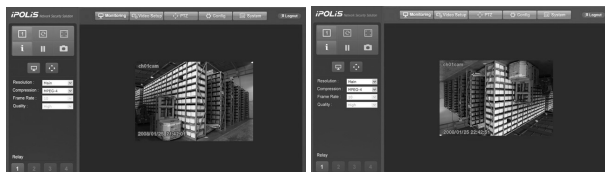
1Ch Display

Displays only one video in the display area the SNC-1300 supports only one channel.



Flip Image

Inverts the channel screen up and down.



Stretch Image

Using this option at the CIF(Sub) resolution enlarges video to the 4CIF size.



Caution

- This Stretch Image option is not available except the CIF(Sub) resolution.



Information

Displays the channel information on video: name, date (year, month, day, and time).



Save Image

Saves the channel screen as a JPEG file.

Chapter 4. Using Web Viewer



Basic

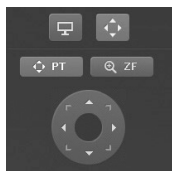
Select a screen resolution and image compression type.

- Resolution (For more information about the Main and Sub Stream settings, please refer to the Video Setup page.)
 - Main
 - Sub
- Compression Types
 - MPEG-4
 - MJPEG
- Frame Rate
 - A maximum number of frames to transfer per second.
- Quality
 - Video Quality (Very High, High, Middle, Low, Very Low)

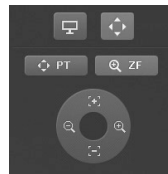


PTZ

Controls the PTZ operation of the camera.



PT Select the PAN/TILT button to control the Pan and Tilt operations of a camera. Clicking the button displays a circular button as shown below. Click an arrow on the circular button to rotate the camera in that direction.



ZF adjusts the zoom and focus of the camera. Clicking the button displays a circular button as shown below. Click a symbol on the circular **+** **-** button to zoom the camera in or out, or adjust the focus.



Note

This PTZ option becomes available only if the external device (SRX-100B, SUNGJIN (e.g. SJ3000RX)) is installed and supports the PTZ operation.



Relay

Turns on or off a connected relay; this button activates when a relay is turned on or off.



Caution

- In case a relay is not connected to the camera, clicking this button does not turn a relay on or off even if the button turns blue when pressed.

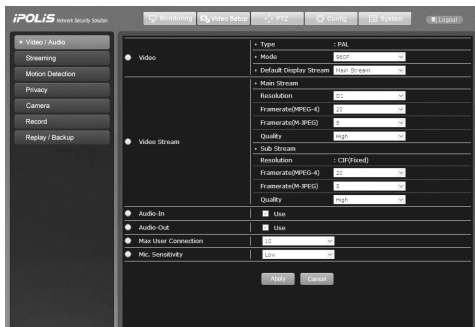
Chapter 4. Using Web Viewer

4.2. Administrator Page

4.2.1. Video Setup

The following page appears when selecting Video Setup at the top of the screen. By clicking on one of **Video Setup** the buttons on the left of the screen, you can go to the page that corresponds to the function described on that button.

4.2.1.1 Video / Audio



Category	Description
Video Type	Displays the current video type
Mode	When selecting 960P, the monitoring screen displays a video at the 1280X960 resolution. Selecting 720P displays a video at the 1280X720 resolution. (Video displays only if the Resolution menu is set to Main on the Monitoring page.)
Default Display Stream	Select a resolution between Main stream and Sub stream on the Monitoring page → Resolution.
Main Stream	Resolution : MEGA(960P, 720P) and 4CIF are available.

Video Stream

Main Stream

Different frame rates are available to choose for Main Stream Frame rate(MPEG-4) depending in the Mode and Main stream Resolution settings

For NTSC

Mode	Main Stream Resolution	Available Main Stream Frame rate (MPEG-4)
960P	MEGA	1, 2, 5, 10, 15, 20
	4CIF	1, 2, 5, 10, 15, 20
720P	MEGA	1, 2, 5, 10, 15, 20, 25
	4CIF	1, 2, 5, 10, 15, 20, 25, 30

For PAL

Mode	Main Stream Resolution	Available Main Stream Frame rate (MPEG-4)
960P	MEGA	1, 2, 5, 10, 15, 20
	4CIF	1, 2, 5, 10, 15, 20
720P	MEGA	1, 2, 5, 10, 15, 20, 25
	4CIF	1, 2, 5, 10, 15, 20, 25

Different frame rates are available to choose for Main Stream Frame rate(M-JPEG) depending in the Mode, Main stream Resolution and Main Stream Frame rate settings.

For NTSC

Mode	Main Stream Resolution	Main Stream Frame rate (MPEG-4)	Available Main Stream Frame rate (M-JPEG)
960P	MEGA	1, 2, 5, 10, 15, 20	1, 2, 5
	4CIF	1, 2, 5, 10, 15, 20	1, 2, 5
720P	MEGA	1, 2, 5, 10, 15, 20, 25	1, 2, 5
	4CIF	1, 2, 5, 10, 15, 20, 25, 30	1, 2, 5

For PAL

Mode	Main Stream Resolution	Main Stream Frame rate (MPEG-4)	Available Main Stream Frame rate (M-JPEG)
960P	MEGA	1, 2, 5, 10, 15, 20	1, 2, 5
	4CIF	1, 2, 5, 10, 15, 20	1, 2, 5
720P	MEGA	1, 2, 5, 10, 15, 20, 25	1, 2, 5
	4CIF	1, 2, 5, 10, 15, 20, 25	1, 2, 5

Quality: Very High, High, Middle, Low, and Very Low

Sub Stream

Resolution: Fixed at CIF.

Chapter 4. Using Web Viewer

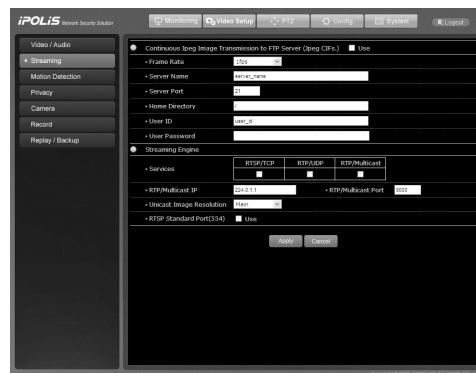
Video Stream	Sub Stream	Different frame rates are available to choose for Sub Stream Frame rate(M-JPEG) fixed at 1,2,5 fps depending in the Mode, Main stream Resolution and Main Stream Frame(MPEG-4) rate settings.			
		For NTSC			
		Mode	Main Stream Resolution	Main Stream Frame rate (MPEG-4)	Available Sub Stream Frame rate (MPEG-4)
		960P	MEGA	1, 2, 5, 10 15, 20	1, 2, 5, 10, 15, 20 1, 2, 5, 10
			4CIF	1, 2, 5, 10, 15, 20	1, 2, 5, 10, 15, 20
		720P	MEGA	1, 2, 5, 10 15, 20, 25	1, 2, 5, 10, 15, 20, 25, 30 1, 2, 5, 10, 15
			4CIF	1, 2, 5, 10, 15, 20, 25, 30	1, 2, 5, 10, 15, 20, 25, 30
		For PAL			
		Mode	Main Stream Resolution	Main Stream Frame rate (MPEG-4)	Available Sub Stream Frame rate (MPEG-4)
		960P	MEGA	1, 2, 5, 10 15, 20	1, 2, 5, 10, 15, 20 1, 2, 5, 10
4CIF	1, 2, 5, 10, 15, 20		1, 2, 5, 10, 15, 20		
720P	MEGA	1, 2, 5, 10 15, 20, 25	1, 2, 5, 10, 15, 20, 25 1, 2, 5, 10, 15		
	4CIF	1, 2, 5, 10, 15, 20, 25	1, 2, 5, 10, 15, 20, 25		
		Sub Stream Frame rate(M-JPEG)			
		For NTSC			
		Mode	Main Stream Resolution	Available Sub Stream Frame rate (M-JPEG)	
		960P	MEGA	1, 2, 5	
			4CIF	1, 2, 5	
		720P	MEGA	1, 2, 5	
			4CIF	1, 2, 5	
		For PAL			
		Mode	Main Stream Resolution	Available Sub Stream Frame rate (M-JPEG)	
		960P	MEGA	1, 2, 5	
			4CIF	1, 2, 5	
		720P	MEGA	1, 2, 5	
			4CIF	1, 2, 5	
		Quality: Very High, High, Middle, Low, and Very Low			
		Main Stream and Sub Stream are available to choose on the monitoring page.			
		Default Display Stream			
Audio - In		Check to use an audio input channel.			
Audio - Out		Check to use an audio output channel.			
Max User Connection		Select from 1 to 5 to limit the concurrent users.			
Mic. Sensitivity		Adjusts the sensitivity of an audio mic. Set this to Low for an amplifiable mic and High for others. (Set to Low for non-mic line-in signals.)			



Caution

- New settings are saved only if you click the **Apply** button at the bottom of the screen. The **Cancel** button cancels new settings.

4.2.1.2 Streaming



■ Continuous JPEG Image Transmission

Category	Description
Use	Check to use the Continuous JPEG Image Transmission option.
FrameRate	Select a number of frames per second.
Server Name	Enter the domain name or IP address of your FTP server.
Category	Server Port.
Description	Enter the port number of your FTP server.
Home Directory	Enter a home directory in the FTP server to save the data. Make sure to enter "/" to save the data directly to the FTP server's home directory.
User ID	Enter an ID to connect to the FTP server.
User Password	Enter the password for the ID that is entered above.

Chapter 4. Using Web Viewer

■ Streaming Engine

Configure the RTP/RTSP streaming service.

Category	Description
Services	RTSP/TCP
	Check to use RTSP/TCP.
	Check to use RTSP/UDP.
RTP/Multicast	Check to use RTP/Multicast.
	Enter an IP address for RTP Multicast.
	Enter a port number for RTP Multicast.
Unicast Image Resolution	Select a resolution for the RTSP/TCP and RTSP/UDP streaming services.
RTSP Standard Port(554)	Check to use the RTSP standard port, 554.

- Multicast RTP is effective to transfer video to multiple users as it uses a considerably low amount of network bandwidth.
- Multicast RTP, however, uses UDP that transfers the latest video and has risks of data loss.
- Multicast requires an authorization from the server router; multicast over the internet is not available.
- Streaming resolution for Multicast is fixed as CIF.



Note

- Unicast is suitable for VOD (Video on Demand) services as it does not transfer video data unless a user connects and requests for data transfer.



Caution

- New settings are saved only if you click the **Apply** button at the bottom of the screen. The **Cancel** button cancels new settings.

■ How to use Streaming Engine

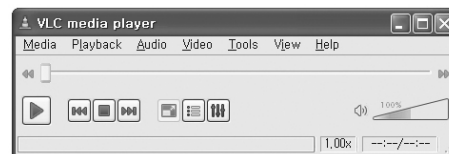
We recommend VLC media player among Streaming Engine products.
(Version 1.0.1 or higher.)

○ Step 1) Streaming Page Configuration

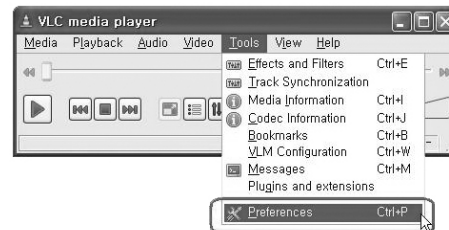
Click the certain function of Streaming Engine and press <Apply> button.

○ Step 2) VLC media player execution

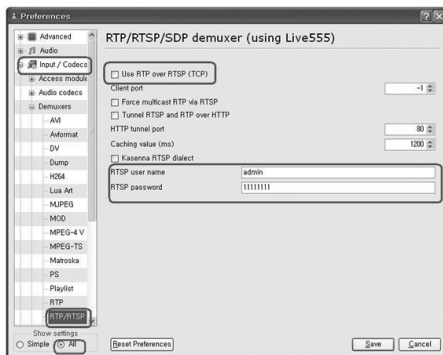
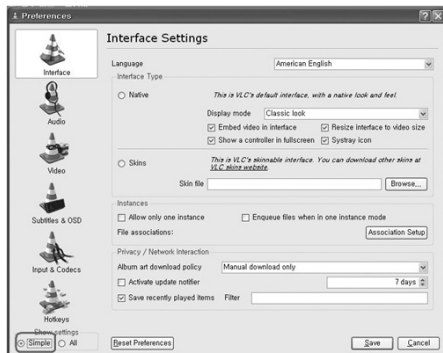
When you execute VLC media player, below screen capture will appear.



- Enter the camera ID and PW as from the following examples.



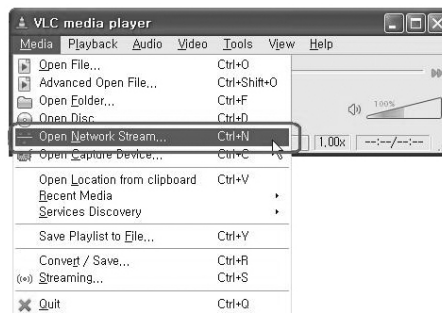
Chapter 4. Using Web Viewer



Note

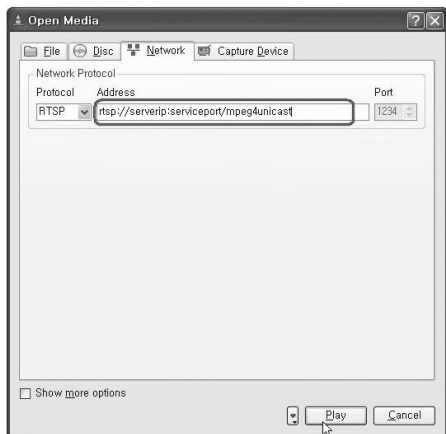
If you check "Use RTP over RTSP(TCP)", determine whether to use Video Setup → Streaming Engine → RTSP/TCP. If you uncheck Use RTP over RTSP(TCP), determine whether to use Video Setup → Streaming Engine → RTP/UDP and RTP/Multicast

Under the Media menu, Select Open Network Stream or simply use the shortcut key(Ctrl + N) select RTSP under Protocol.



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- Depending on the type of a video, enter an address as from the examples in the following chart, and then click Play. When using the default RTSP port number, 554, you may skip entering the port number.



Address	Streaming Engine Configuration
rtsp://<IP>:<SERVICE PORT>/mpeg4unicast	RTSP/TCP, RTP/UDP Use
rtsp://<IP>:<SERVICE PORT>/mpeg4multicast	RTSP/Multicast Use

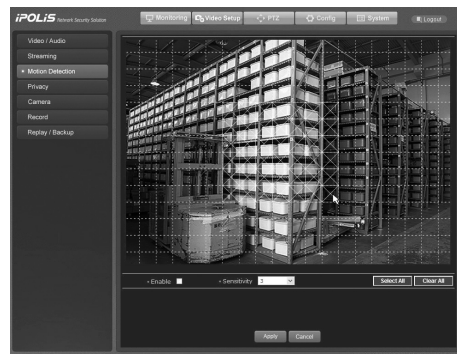


Note

- <IP> : camera IP.
- <SERVICE PORT> : Service port number(in the Config setup → Network).

4.2.1.3 Motion Detection

Configure the camera's Motion Detection operation.



Note

Selected Area, Non-Selected Area

Category	Description
Enable	Check to enable Motion Detection.
Sensitivity	Select a sensitivity level for motion detection according to the video display settings. 5 levels are available, and 5 is the most sensitive.



Caution

- New settings are saved only if you click the **Apply** button at the bottom of the screen. The **Cancel** button cancels new settings.
- When selecting a mode at Video Stream on the Video / Audio page, the 960P mode saves a video selection at 960P. 720P saves the area at 720P. (The Enable and MD Sensitivity options, however, are not affected by the mode.)

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4.2.1.4. Privacy

For privacy protection, you can specify areas to hide. When selecting an area in a video, the area is masked in gray.



 **Note** :  : Selected Area,  : Non-Selected Area

Category	Description
Enable	Check to use the Privacy masking option.
Blending Level	Blending Level adjusts the masking translucency. 5 levels are available, and 5 is the most opaque.

Caution

- New settings are saved only if you click the **Apply** button at the bottom of the screen. The **Cancel** button cancels new settings.
- When selecting a mode at Video Stream on the Video / Audio page, the 960P mode saves a video selection at 960P. 720P saves the area at 720P. (The Enable and MD Sensitivity options, however, are not affected by the mode.)

4.2.1.5. Camera

To configure the OSD settings, select options from the tree on the left.

■ Lens (LENS)

1. LENS SETUP :

DC / Video and MANUAL lenses are available to choose.

- Brightness Level :

Lets you adjust the screen brightness. Enter the level in the input window, and then press Execute to apply the change immediately. The Apply button saves the new settings. Brightness levels from 1 to 70 are available. Adjust the setting for the best screen brightness.

- Focus ADJ(Adjust) :

Adjust the setting for the best focus. The Focus ADJ mode is available only if the lens is DC/Video.

Caution

- Depending on the brightness level, certain lenses may encounter errors.
- When using a video type auto iris lens:
 - Adjust the ALC adjustment terminal on the lens properly. The recommended setting is the AV (Average) mode.
 - This Brightness option may not be compatible with certain lenses. For best results, optimize the eye VR of your lens.
 - Disable the exposure gain, and then adjust the lens VR to a suitable brightness level.
 - After adjusting the lens VR, test the brightness level by readjusting the Brightness menu. If the brightness still does not change, readjust the lens VR.

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■ Exposure (EXPOSURE)

1. SHUTTER SETUP :

Select the automatic or manual shutter control.

- Auto (ESC) : Controls the shutter speed automatically. When Auto is selected, the shutter speed is controlled automatically to suit the subject's illumination level.
- Manual (MANUAL) : Controls the shutter speed manually.
- Flickerless(A.FLK) : Select this option when you are experiencing screen flicker caused by a frequency conflict between the camera frame-rate and illumination.
- Shutter Speed (Shutter) : Controls the camera shutter speed.

2. GAIN SETUP :

Increasing the Gain Level increases the screen brightness, but also increases the amount of noise.

- OFF : Gain is disabled.
- LOW : Automatically adjusts the Gain level from 0 to a maximum of 20dB.
- Middle : Automatically adjusts the Gain level from 0 to a maximum of 34dB.
- HIGH : Automatically adjusts the Gain level from 0 to a maximum of 42dB.

3. SENSUP SETUP

Maintains bright and clear pictures at night and other low-light conditions by automatically detecting low-light levels.

- Enable : Select to activate the Sens-up option.
- SensUp Level : Adjusts the maximum SensUp level and Automatic Low Light mode.

Caution

- If you select Internal Synchronization for Synchronization Method in the Image Adjustment Setup Menu, set Shutter Mode in Exposure Compensation to Manual, and then point the camera directly at a bright fluorescent light, the picture may become unstable; please choose the camera's direction carefully when installing.
- The Auto and Manual shutter modes are available only if the lens is manual.
- Higher ratios make the picture brighter, but create more afterimages of moving subjects.
- Using a high accumulation ratio for SensUp may cause noise, spots, and whiteouts to appear even when the camera is operating normally.
- Make sure to check "ON" to activate the option.

■ White Balance (WHITE BAL)

Use this White Balance option to adjust the screen colors.

1. ATW (Automatic Tracing White Balance) : Performs the multiple white balance operation automatically. Color temperature between 1,800 and 10,500 °K is used.
2. AWC : Obtain optimal White Balance for current illumination environment by pointing the camera at a sheet of white paper and pressing the SET button. The white balance requires readjustment if the lighting condition changes.
3. MANUAL : You can make fine adjustments in Manual Mode. First, use either Auto or Temporary mode to adjust the white balance. Switch to Manual mode, and click the SET button. Increase or decrease Red and Blue values to adjust the color of video.
 - RED Level : Changes the Red values of video. To apply the change immediately, press Execute.
 - BLUE Level : Changes the Blue values of video. To apply the change immediately, press Execute.

Caution

- White Balance may not function correctly under the following conditions. If so, please use the AWC mode instead.
 - The subject is in an environment that exceeds the color temperature compensation range. (e.g. Clear sky or sunset)
 - The subject is in a dark environment.
 - White Balance may function incorrectly if the camera is pointing directly at a fluorescent light, or installed in an environment with fluctuating lighting levels.

■ Day & Night Mode (DAY/NIGHT)

Switches between the Color and B&W modes.

1. Auto : Color mode is normally used, and B&W mode is used for low-light conditions.
2. B/W (Black and White) : Displays video in black and white.
3. Color : Displays video in color.

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Caution

- Using a video auto iris lens at a low "LENS" level may prevent the camera from switching between the Color and B&W modes automatically.
- If the Gain mode under the Exposure menu is set to "OFF", the Day & Night mode is fixed to color and cannot be switched.
- Using infrared illumination may result in poorer focus than using visible light illumination. To improve focus when using IR illumination, use an Extra-Low Dispersion lens with your camera.

Image Adjustment Setup (IMAGE ADJ)

1. FLIP SETUP : Inverts an image vertically (upside down).
2. MIRROR SETUP : Inverts an image horizontally by flipping the left and right.
3. SHARPNESS SETUP : Adjusts the image outline enhancement level.
Select a level that best suits your image.

Caution

- Setting Outline Adjustment too high may cause the image to appear unnatural and/or cause noise in the picture.

Custom Backlight Compensation (BLC)

Manually define an area in the picture to enhance the visibility of subjects in that area.

Reset (RESET)

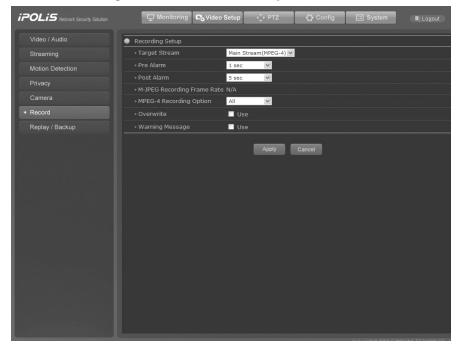
Resets all OSD settings to their factory default values.

Caution

- New settings apply only if you press **Apply** at the bottom of the screen. **Cancel** cancels new settings.

4.2.1.6 Record

Use this menu to save image data to the SD memory card.



Record Setup

Category	Description
Target Stream	Select a stream to save.
Pre Alarm	Select a time prior to save an event prior to its occurrence.
Post alarm	Select a time to finish saving an event after its occurrence.
M-JPEG Recording Frame Rate	Saves only 1 frame per second.(M-JPEG)
MPEG-4 Recording Option	Saves only 1 frame per second.(M-JPEG)
Overwrite	Delete the oldest file and save a new file when no free space remains in an inserted memory device.
Warning Message	Description : A warning sign will appear in the monitoring screen if the memory of the SD card is insufficient due to not using the overwrite capabilities or a defect of the SD card.

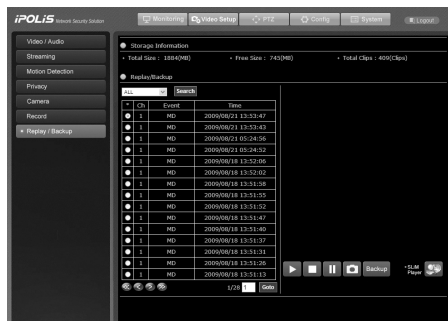
Caution

- If Overwrite is not checked on and the SD memory card is full, the camera stops recording data.
- The SNC-1300 is compatible only with SD card; MMC cannot be used. Do not insert the SD card backward; it may damage the slot.
- Only 1 to 2GB SD and 4GB SDHC cards are supported.
- We recommend the FAT32 format.
- Please turn off the camera before removing the SD card; the data may be damaged otherwise.

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4.2.1.7 Replay / Backup

If Overwrite is not checked on and the SD memory card is full, the camera stops recording data.



Category		Description
Storage Information	Storage Size	Total : Indicates the total capacity of an SD memory card. Free : Indicates free space of an SD memory card.
	Total Clips	Indicates the number of files(Sensor(Sensor Detection), MD(Motion Detection)) saved in the SD memory card.
Replay/backup	Event Type	MD(Motion Detection) and Sensor(Sensor Detection) are available; displays only the selected type of event files when searched.
	Search	MD and SD are available; displays only the selected type of event files when searched.
		Moves to a page that contains a list of older files. > : Moves to the previous page. >> : Move to the last page.
		Moves to a page that contains a list of newer files. < : Moves to the next page. << : Move to the last page.
Goto		Enter a page number to go directly to it.
		Plays a saved video.
		Stops the video.
		Pauses the video.
		Save the video image as a JPEG file.
Backup		Saves the video to your computer.
		Install Slim Player.

4.2.2 PTZ SETUP

The following page appears when selecting PTZ Setup at the top of the screen.



The following page appears when selecting PTZ Setup at the top of the screen.



■ Device Setup

You can change settings depending on the installed PTZ receivers.

Category		Description
Device Setup	Device ID	Assign a device ID to the receiver set on the Mode menu.
	Mode	Select a camera receiver : SRX-100B or SUNGJIN.



Note For more details about the PTZ button, refer to Page 41.



Caution

- New settings are saved only if you click the **Apply** button at the bottom of the screen. The **Cancel** button cancels new settings.

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4.2.3. Config Page

The following page appears when selecting Config at the top of the screen. Buttons on the left side of the screen move to the relevant menu page.

4.2.3.1. Network

■ Interface

LAN, xDSL, and DHCP options are available depending on your network environment.

Category	Description
LAN	If the camera uses a static IP, enter the network information of the camera.
xDSL	Enter your xDSL ID and password into the user ID and Password fields.
DHCP	Select this option when the camera receives an IP from a DHCP server.

■ Port

Enter a port number to connect the camera to the network.

■ DDNS

Check to use the DDNS service.

Category	Category
Use	Check to use the DDNS service.
Server	Enter a DDNS server address; our DDNS server is at www.samsungipolis.com .
ID	Enter the ID (domain name) of the camera that is registered to the DDNS server.
Password	Enter the password for the ID entered above.

■ Using DDNS

Our DDNS server registration procedures are as follow:

- Step 1) Sign up for membership on the iPoLiS website at : www.samsungipolis.com.



Pic 4-1. iPoLiS Website

Chapter 4. Using Web Viewer

SIGNUP My IPOLIS > Signup

Welcome to IPOLIS
We provide real-time online video service for IPOLIS products through this web browser.
We recommend strongly every purchaser of IPOLIS products sign up for IPOLIS online.

LEGAL NOTICE
Legal Notice
NO. 1
NO. 2

☒ Agree

NEXT

Pic 4-2. Membership Signup: Agree to the Terms of Service

SIGNUP My IPOLIS > Signup

Welcome to IPOLIS
We provide real-time online video service for IPOLIS products through this web browser.
We recommend strongly every purchaser of IPOLIS products sign up for IPOLIS online.

Manage your account

ID Create password of 6 to 12 characters in length containing letters A-Z or numbers 0-9

PASSWORD

PASSWORD Check

NAME

JOB ☒

E-mail

ADDRESS

TEL

MOBILE PHONE

Manage company account

COMPANY

TEL

FAX

ADDRESS

SIGNUP BACK

Pic 4-3. Membership Signup: Enter Personal and Company Information

- Step 2) Log in to the website, and then register your camera.

WELCOME to IPOLIS!

Login

ID PASSWORD LOGIN

MEMBER JOIN
Sign up for IPOLIS online
SIGN UP

IDPW SEARCH
User ID and password don't match
IDPW SEARCH

Pic 4-4. Log In

Product List My IPOLIS > Product List

Current product list is displayed.
If wanted product is not in the list, click 'Product Registration' at the bottom.

NO	ID	Model	Location	Status	View	Information	Management
1	ipol0000	SMP-0000	AMBASSADOR HOTEL	OFF	View	Details	Edit Delete
2	ipol0001	SMP-0001	LAB	OFF	View	Details	Edit Delete

Product Registration

Pic 4-5. Registered Device List

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Product Registration My iPOLIS > Product Registration

Mandatory Information

http://www.samsungipolis.com/ **AVAILABILITY**

ID (Domain)

- Create an ID of 4 to 12 characters in length containing letters a-z or numbers 0-9.
- You should have exactly same ID with the item (product) ID to log on DDNS online service.
- Make sure the correct ID and click the item (product) ID.
- You may not able to change the initial domain name.

PASSWORD

PASSWORD CHECK

CLASSIFICATION Choose product category.

MODEL NUMBER Choose product model.

LOCATION

- Determine the location to install the system (or camera).
- Designate the installation location within 10 alphabet letters.

DESCRIPTION

- Describe product for management purpose.

Registration **Cancel**

Pic 4-6. Register Camera (Check the availability for your desired domain name.)



Pic 4-7. Device List (The camera will be listed up if it is successfully registered.)

Step 3) Configure the camera with the DDNS information.

- Select the [Config→Network] menu on the network camera webpage.
- Click use under the DDNS options to enable the service, and then enter the address of the DDNS server.
- Enter the ID (Domain Name) and password used to register the camera on the iPOLIS website into ID and PW.

iPOLIS Network Setup Solution Monitoring Video Setup PTZ Config System Logout

Network

IP Filtering

Alarm Sensor

E-mail / FTP (Alarm)

Interface

- LAN** **MODEM** **DDNS**
- IP Address
- Net Mask
- Gateway
- DNES1
- DNES2
- MODEM**
- User ID
- Password

Port

- Service Port 80 (Default : 80)

DDNS

- ☒ Use
- Server
- ID
- Password

Apply **Cancel**

Now the SNC-1300 is set up with the DDNS service.

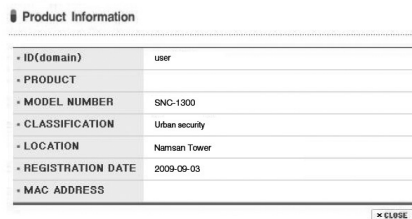
Chapter 4. Using Web Viewer

- Step 4) Log in to the iPOLiS website and check the connection status of the camera in your Product List.



Pic 4-8. Product List

Press Check next to the “Product Information” to check the information for a connected device.



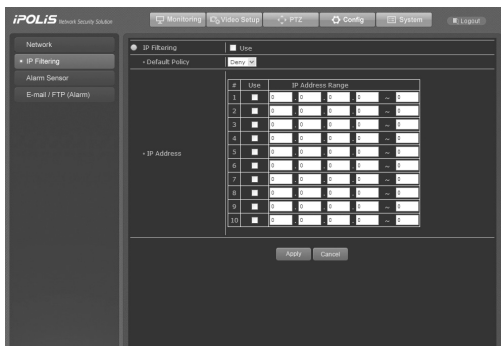
Pic 4-9. Product Information

Click the Shortcut button under “View Video” to move to the login page of a selected product. The Modify and Delete buttons under “Product Management” are to modify and delete the information for a device that is registered on your Product List. They move to corresponding pages, however, only if you enter the correct password. The Product ID (Domain) cannot be modified; you must first delete the current Product ID and then create a new one.

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4.2.3.2. IP Filtering

You can allow or deny certain IPs.



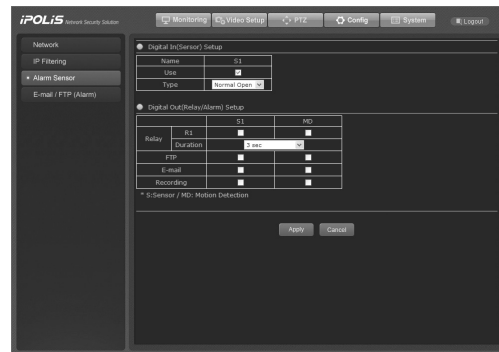
Category	Category
IP filtering	Check on use to enable IP Filtering.
Default policy	Determines action on an IP displayed in the Filtering Rules pane. Allow : Allows connections for the IP. Deny: Rejects connections for the IP.
Filtering Rules	Use: Activates the Default policy for an IP next to the checkbox; check to apply the policy to the IP. IP Range : Indicates a range of IPs to apply IP Filtering. e.g.) 192.168.30.4 ~ 100 Apply IP Filtering to IPs from 192.168.30.4 to 192.168.30.100.



- New settings are saved only if you click the **Apply** button at the bottom of the screen. The **Cancel** button cancels new settings.

4.2.3.3. Alarm Sensor

Configure the options to use the Alarm services by attaching a sensor to the camera.



◇ Digital In(Sensor) Setup

Category	Description
Sensor Use	Check to use a sensor.
Sensor Type	"Normal Open" and "Normal Close" are available choices when selecting the type for a connected sensor.

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◇ Digital Out(Relay/Alarm) Setup

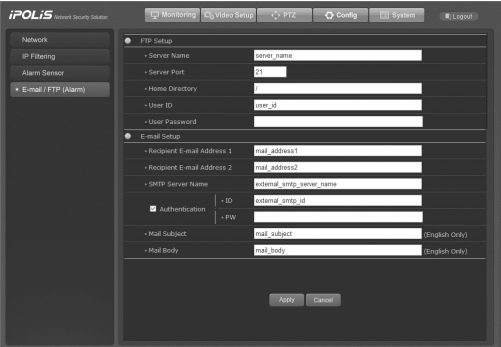
Category	Description
Relay	Select a digital output for certain events: the connected sensor (Sensor1) or motion detection (MD) is activated.
Duration	Select a duration to activate a relay; it starts when the sensor detects an event and ends when the relay is disabled. (1, 2, 3, 4, 5, 30 sec; 1, 2, 3, 5 min, and always)
FTP	Check to transfer the information for certain events to your FTP server: when the connected sensor (Sensor1) or motion detection (MD) is activated.
E-mail	Check to send out the information for certain events via email: when the connected sensor (Sensor1) or motion detection (MD) is activated.
Recording	Check to send out the information for certain events via email: when the connected sensor (Sensor1) or motion detection (MD) is activated.



• New settings are saved only if you click the **Apply** button at the bottom of the screen. The **Cancel** button cancels new settings.

4.2.3.4. E-mail-FTP (Alarm)

Enter the information for your FTP server and email address to transfer data when the alarm activates.



■ E-mail / FTP Setup

Enter the information for your FTP server and email address to transfer data when the alarm activates.

Category		Description
FTP	Server Name	Enter the domain name or IP address of your FTP server.
	Server Port	Enter the Port Number of your FTP server.
	Home Directory	Enter a home directory in the FTP server to save data.
	User ID	Enter an ID to log in to the FTP server.
	User Password	Enter an password to log in to the FTP server.



• These settings do not apply to the Continuous Jpeg Image Transmission to FTP Server option at the Video Setup — Streaming menu.

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Category			Description
E-mail	Recipient E-mail Address 1 Recipient E-mail Address 2		Enter a maximum of 2 email addresses to transfer data when the alarm activates.
	SMTP Server Name		If you use an external email server, enter the name of the email SMTP server.
	Use Authentication		Check to use an external email server; it requires an ID and password.
		ID	Enter an ID to connect to your email server.
		Password	Enter the password for the ID that is entered above.
	Mail Subject		Enter the subject for an email.
	Mail Body		Enter content for the email.

 **Note** · Upon the occurrence of an event, a JPEG image is sent via email and/or uploaded to the FTP server.

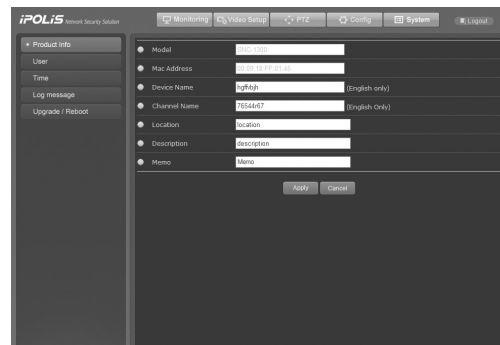
Caution

- New settings are saved only if you click the **Apply** button at the bottom of the screen. The **Cancel** button cancels new settings.
- These settings do not apply to the Continuous Jpeg Image Transmission to FTP Server option at the Video Setup → Streaming menu.

4.2.4. System

The following page appears when selecting **System** at the top of the screen. Buttons on the left side of the screen move to a relevant menu page.

4.2.4.1. Product Info



■ Product Info

Category	Description
Model	Displays the model name of the camera.
Mac Address	Displays the MAC address of the camera.
Device Name	Name the camera to distinguish it when using multiple cameras. (English Only)
Channel Name	Name the channel 1. When playing multiple video feeds on the screen using a multi-channel device such as a video recorder, naming a channel helps you to distinguish it from others. (English Only)
Location	Enter the installed location for the camera.
Description	Add a description for the camera.
Memo	Memo

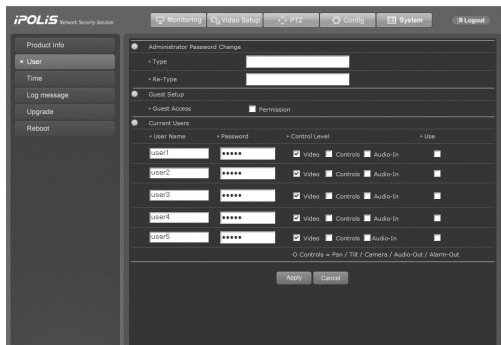
Caution

- New settings are saved only if you click the **Apply** button at the bottom of the screen. The **Cancel** button cancels new settings.

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4.2.4.2. User

You can change the password of the administrator ID and configure user accounts on this page.



Category	Description
Administrator Password Change	Change the password for the administrator account.
Guest Setup	Check on or off to allow guest access to main viewer; enable or disable the Guest Access button.
Current User	You can add and delete users, and configure permissions for each user. The default password is 'user1' to 'user5'.

■ User Permissions

Available user permissions in the Current user menu are as follows.

Category	Description
Video	Allows using video-related options: compression and resolution.
Control	Allows outputting audio, alarms and controlling the camera PTZ operation.
Audio	Allows inputting audio.
Use	Check to activate an account. (Unchecked user accounts cannot be used to login.)

- e.g.1) To restrict a user from controlling the camera: uncheck Control.



- ※ The Pan, Tilt, Zoom, and Audio, Alarm icons are grayed out and disabled.

- e.g.2) Restrict a user from using video-related options: uncheck Video.



- ※ The Compression and Resolution settings area are grayed out and disabled.

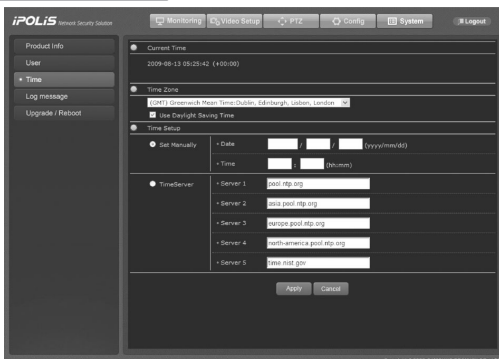


Caution

- New settings are saved only if you click the **Apply** button at the bottom of the screen. The **Cancel** button cancels new settings.

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4.2.4.3. Time



■ Current Time

Displays the current time.

■ Time Zone

Select the GMT and city of the camera.

Check use Daylight Saving Time to apply DST according to your city and country.

■ Time Setup

Category	Description
Date	Configures the current date of the camera.
Time	Configures the current time of the camera.

■ Time Server

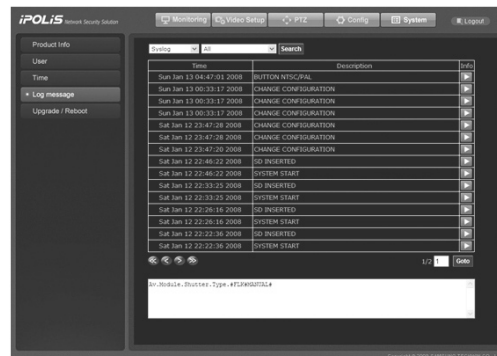
Enter the address of your NTP (Network Time Protocol) server. NTP (Network Time Protocol) synchronizes the time among the various devices and systems connected to a network; the NTP client automatically communicates with registered NTP servers to adjust its time setting. If you want to use an NTP server other than the default, change the address of Server1 to Server5.



- To change time by using the Set Manually option, you must fill out all fields.

4.2.4.4. Log Message

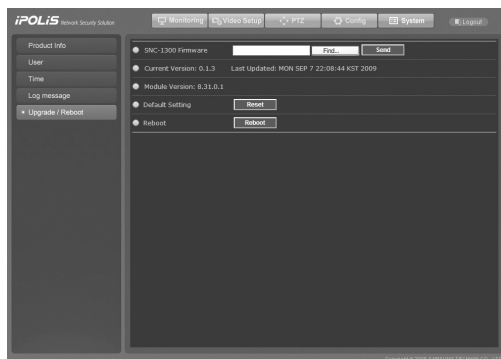
Logs the latest actions of a camera in a file.



Category	Description
Syslog (System Log)	Displays system logs in 5 different categories : Device, Network, User, Configuration, and Etc. Select a category and then press Search to display logs. Selecting All displays all available information regarding System Log.
Evtlog (Event Log)	Displays event logs in 5 different categories : Motion Detection, Sensor Input, Relay Output, and Etc. Select a category and then press Search to display logs. Selecting All displays all available information regarding System Log.
Time	Displays the time when the event is logged.
Description	Displays the description of a log.
Info	Displays the details of a log on a window at the bottom.
⏪	Moves to the first page.
⏴	Moves to the previous page.
⏵	Moves to the next page.
⏩	Moves to the last page.
Goto	Enter a page number, and then press the Goto button to move to the page directly.

4.2.4.5. Upgrade

Upgrade the SNC-1300 network camera program.



■ System Upgrade Configuration

Category	Description
SNC-1300 Firmware	Upgrades the firmware of the SNC-1300 network camera.
Current Version Last Updated	Displays the current firmware version of the camera along with the latest updated date and time.
Module Version	Displays the version of the camera module.
Default Setting	The Reset button resets all information to the defaults except Config page, Network page settings, user settings and log and time related data and settings.
	Retainable Entries upon Reset
	Config → Network page settings
	System → User Page(Current Users) settings
	System → Log page settings
	System → Time page settings
Description	Reboots the camera.

If you are experiencing problems with your product, please read and follow the instructions below before you contact the vendor.

- Analog video fails to display.
 - ▶ Check if the camera or monitor is properly connected with the power cable.
 - ▶ Check if the video cable is properly connected.
 - ▶ Check if the lens is properly set.
- Empty black screen
 - ▶ Check if the camera is turned on and powered properly.
 - ▶ Check if the video signal cable is connected properly.
 - ▶ Check if you have sent the Auto Lens Switch to DC (Video) for a Video (DC) lens; the switch must be set to Video (DC) instead.
 - ▶ Open a command prompt and check if the SNC-1300 network camera is connected to the network.
 - ※ For ping 192.168.1.100, change it to the camera's IP address that is registered to the server.
- Blurry screen
 - ▶ Check the lens surface for pollutants. Please use a clean cloth or a brush to clean the lens surface.
 - ▶ Adjust the monitor display settings.
 - ▶ If you see an excessive amount of bright light on the monitor screen, change the position or angle of the camera.
 - ▶ Readjust the camera's back focus.
- Dark screen
 - ▶ Adjust settings for the monitor or DVR.
 - ▶ Check if systems are properly connected with termination connectors.
 - ▶ If you are using an auto iris lens, adjust the brightness.
- The camera is acting strange, or the chassis feels too hot and the screen shows a series of black lines.
 - ▶ Check if the power supply for the camera conforms to specification; check for fluctuations in the voltage of the camera's power supply.
- Motion Detection does not work.
 - ▶ Check if you have checked "Off" the "Motion Detection" option.
 - ▶ Check if the MD level is set too low.
 - ▶ Check if the MD area is set up properly.
- Incorrect colors
 - ▶ Check if the "WHITE BAL." option is set up properly.
- Frequent flickering on the screen
 - ▶ Check if the camera is pointing at the sun or a fluorescent light.
 - ▶ If you are using an auto iris lens, check if the lens connector cable is connected properly.
- Day & Night (Auto) does not work.
 - ▶ Check if the AGC menu is turned "OFF"

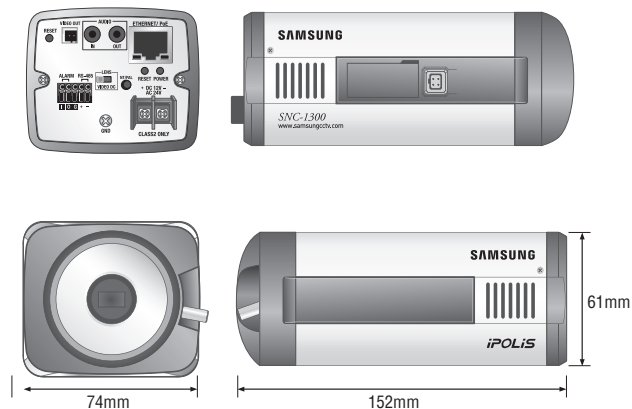
- SensUp does not work.
 - ▶ Check if the AGC menu is turned "OFF".
 - ▶ Check if the SHUTTER menu is set to MANUAL.
- Audio does not work.
 - ▶ Check the administrator page if the channel is activated with audio.
 - ▶ Check the speaker volume with Web Viewer.
 - ▶ When the mic sound does not output through the server's audio output terminal, check the administrator page if the Audio Out channel is selected. Or check on the viewer if a mic is enabled.
 - ▶ Check if your computer is equipped with an audio device.
- Sudden video pause
 - ▶ Check if the SNC-1300 network camera is connected properly with a network cable.
 - ▶ When using an extra network device such as a hub or IP router, check if the device is in operation.
 - ▶ Open a command prompt and check if the SNC-1300 network camera is connected to the network.
- Cannot watch video on Web Viewer.
 - ▶ Press the F5 key to refresh the page.
 - ▶ Check if the camera is turned on and connected properly with a network cable.
 - ▶ Check if the camera is in the network.
 - ▶ When using a hub or router, check if the device is in operation.
(Note: On a DOS window, ping 192.168.1.100 and enter the network IP of the camera.)
 - ▶ Login to the administrator page and check if the Video Output option is selected.
- Cannot see a video image sent to the FTP server or via e-mail.
 - ▶ If your computer is not installed with the Divx codec for decoding MPEG4-compressed images, the image may not display properly. Download and install the latest DivX file, and then check the image again. <http://www.divx.com/divx/download>.
- Cannot see data in the SD memory card.
 - ▶ Make sure that you do not take out the memory card while contents are being saved.
 - ▶ Check if the SD memory card is properly inserted.
 - ▶ Check if the capacity on the card is correct on the Record Page.
- Product information does not display in the local network.
 - ▶ Check if the network cables are properly connected.
 - ▶ Reset the camera to the factory defaults by pressing the RESET switch on the back of the camera for 5 seconds, and then check again.
- Pan, tilt, zoom, and focus do not work.
 - ▶ Check if the camera, monitor or receiver is properly connected with the power cable.
 - ▶ Check the LAN cable is properly connected.
 - ▶ Consult the operation manual for the receiver connected to the camera.

Model Name		SNC-1300
Camera		
Imaging Device	6mm(1/3") Progressive Scan CCD	
Total Pixels	1,348(H) x 976(V), 1.32M pixels	
Effective Pixels	Effective Pixels 1,296(H) x 966(V), 1.25m pixels (equivalent to 800TVL color, 800TVL B/W)	
Minimum Luminance	Color : 0.5lx (F1.2, 50IRE) B/W : 0.05lx (F1.2, 50IRE)	
S/N Ratio	50 dB	
OSD	Embedded	
Camera Title	On / Off	
Day & Night	Auto (ICR) / Color / BW	
Backlight Compensation	BLC / Off	
Motion Detection	On / Off	
Privacy Protection	On / Off	
Sens-up	Selectable limit ~ X128	
Gain Control	High / Low / Off	
White Balance	ATW / AWC / Manual	
Electronic Shutter	1/22.5(960P), 1/30(720P) ~ 1/90000 sec	
IRIS Control	DC / Video / Manual	
Performance		
Encoding	Resolution	960P, 720P, 4CIF, CIF
	Compression Method	MPEG-4/JPEG Dual CODEC with transcoder
	Frame Rate	Up to 20 fps @ 1280X960 25 fps @ 1280X720 30 fps @ 4CIF 30 fps @ CIF
	Image Quality	5 levels
Network	Data Transfer Speed	Up to 100Mbps
	Concurrent Users	Max 5(Depending on Image Quality)
	Protocol	RTP/UDP, RTP/Multicast, RTSP, TCP/IP, DHCP, DNS, DDNS, HTTP, SMTP, FTP, PPPoE and NTP
Security	Password Authorization	5 User Levels

Product Specifications

Interface		
Monitor	Output	1 video out (CVBS for Installation)
	Input	1 Phone Jack, Line in (1Vpp) / MIC in (2K ohm)
	Output	1 Phone Jack, Line out (1Vpp) / Speaker out (16 ohm)
Audio	Compression Method	ADPCM
	Sampling Rate	8 KHz
Alarm	Input	Terminal 1 input, NO/NC
	Output	Terminal 1 output
	Remote Alert	Via E-mail or oneshot FTP
Connection	Connection	RJ-45 10/100 Base-T
	PTZ control interface	RS-485
Storage	SD (SDHC) Memory	1GB,2GB SD and 4GB SDHC Memory cards (recommendation).
S/W		
Installation Program		Provided
IP installer		Provided
Dedicated Viewer		Provided
Web Server ActiveX Controller		Provided
General		
Input Voltage		Dual (DC12V±10%/AC24V±10%), PoE (IEEE 802.3af)
Power Consumption		Max. 8.5W
Operating Temperature/Humidity		-10°C ~ +50°C / 30% ~ 80% RH
Dimensions (W×H×D)		74x61x152mm (2.91"x2.4"x5.98")
Weight		585g (1.29 lb)
Lens Mount		C/CS

DIMENSION



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MEMO

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